

SYSTEM LEVEL BATTERY INTEGRATION SYSTEM

ABSTRACT

A method and structure for a system level integration of a battery with an integrated circuit chip comprises a solid state battery, or other types of batteries, an integrated circuit chip powered by the battery, and a package connected to the battery and the integrated circuit chip. The package connects to the integrated circuit chip through an interior portion of the package, and the battery overhangs the integrated circuit chip, wherein the integrated circuit chip connects to an upper indent portion of the package, and wherein the battery is larger than the integrated circuit chip. Alternatively, the battery connects to an underside of the package. Also, there may be a stack of batteries used, or multiple integrated circuit chips arranged in a multi-chip module.